

**SECRET**DPS-5351  
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CMCC Doc. No. 151x5.1273  
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October 27, 1958

Dear Dan:

This is a proposal for the design, development, fabrication and installation of an improved Band 1 receiver for System 4. It is being submitted in response to a recent request made by the Customer's representative.

This new receiver differs from the present Band 1 receiving equipment in that the lower end of the range is extended from 150 megacycles to 50 megacycles. In addition to this extended range, the redesigned receiver employs exclusively electronic scanning, provides one to two orders of magnitude better stability than that contained in the present Band 1 equipment, and incorporates an extended capability of cw reception. This redesigned receiver is described more fully in the attached Technical Exhibit (CMCC Doc. No. 1133x5.72).

Minor changes in the wiring and logic of System 4 airborne equipment, test equipment and associated ground data reduction equipment will be necessary to properly accommodate the new receiver system. Thus, it is recommended that the System 4 airborne equipment, M and N racks, and test sets presently in the Customer's possession, be returned to the plant for modification and compatibility testing. As shown in the attached Delivery Schedule A, the prototype development, modification and installation can be made in twelve (12) months. One each of the airborne equipment, M and N racks, and test set will need to be returned to our plant for prototype installation modification and testing. The attached Delivery Schedule B shows that production installation and modification of the rest of System 4 equipment can be completed within one to two months from the time each equipment is returned to us.

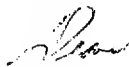
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The total estimated cost of the program is  The fee at  and the total estimated cost including fee is . Additional funds will be required for this program.

Additional clearances will be required for several of the personnel who would be assigned to this project. We would appreciate an early indication of your intentions to accept this proposal so that we can begin clearance procedures with a minimum of delay.

Sincerely,



Dean

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**DELIVERY SCHEDULE**  
**SYSTEM 4**  
**IMPROVED BAND 1 RECEIVER**

Items in Statement of Work will be completed or delivered in accordance with the following schedule:

**SCHEDULE A** (This schedule is based on date of receipt of authority to proceed. In addition, one each of the Customer-furnished equipments will be required for prototype installation within nine (9) months.)

|        |   |           |
|--------|---|-----------|
| Item 1 | Development and testing of one (1) prototype Band 1 receiver -  | 12 months |
| Item 2 | Prototype modification of one (1) System 4 airborne equipment - | 12 months |
| Item 3 | Prototype modification of one (1) M rack -                      | 12 months |
| Item 4 | Prototype modification of one (1) N rack -                      | 12 months |
| Item 5 | Prototype modification of one (1) System 4 test set -           | 12 months |

**SCHEDULE B** (This schedule is based on date of receipt of Customer-furnished equipment at the Contractor's plant.)

|         |   |                                    |
|---------|---|------------------------------------|
| Item 6  | Fabrication of six (6) Band 1 receiver production models:         |                                    |
|         | Models 1, 2, 3 -  | 4 months                           |
|         | Models 4, 5, 6 -  | 6 months                           |
| Item 7  | Production modification of six (6) System 4 airborne equipments - | 1 month each<br>airborne equipment |
| Item 8  | Production modification of nine (9) M racks -                     | 2 months each<br>rack              |
| Item 9  | Production modification of three (3) N racks -                    | 2 months each<br>rack              |
| Item 10 | Production modification of two (2) System 4 test sets -           | 1 month each<br>test set           |

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STATEMENT OF WORK  
SYSTEM 4  
IMPROVED BAND 1 RECEIVER

The Contractor proposes to provide the necessary engineering, labor, facilities, and material to perform the following work:

- | <u>Item</u> | <u>Description</u>   |
|-------------|--|
| 1           | Design, develop, fabricate and unit environmentally test one (1) prototype model of an improved Band 1 receiving equipment as described in the accompanying Technical Proposal (CMCC Doc. No. 1133x5.72). This prototype shall be installed and compatibility tested with a System 4 airborne equipment.           |
| 2           | Design and develop such engineering modifications as are necessary to make existing System 4 airborne equipment compatible with the redesigned Band 1 receiving equipment developed under Item 1. These engineering modifications shall be incorporated into one System 4 airborne equipment on a prototype basis. |
| 3           | Design and develop such engineering modifications as are necessary to make the M data reduction rack compatible with the Band 1 receiving equipment developed under Item 1. These engineering modifications shall be incorporated into one M rack on a prototype basis.  |
| 4           | Design and develop such engineering modifications as are necessary to make the N data reduction rack compatible with the Band 1 receiving equipment developed under Item 1. These engineering modifications shall be incorporated into one N rack on a prototype basis.  |
| 5           | Design and develop such engineering modifications as are necessary to make the existing System 4 test set compatible with the redesigned Band 1 receiver designed under Item 1. This engineering modification shall be incorporated into one System 4 test set on a prototype basis.                               |
| 6           | Fabricate and unit environmentally test six (6) units of the Band 1 receiver designed under Item 1. These production models shall be installed and compatibility tested with the System 4 airborne equipment.  |

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| <u>Item</u> | <u>Description</u>  |
|-------------|---|
| 7           | Incorporate into six (6) System 4 airborne equipments, on a production basis, the engineering modifications developed under Item 2. |
| 8           | Incorporate into nine (9) M racks on a production basis the engineering modifications developed under Item 3.                       |
| 9           | Incorporate into three (3) N racks on a production basis the engineering modifications developed under Item 4.                      |
| 10          | Incorporate into two (2) System 4 test sets on a production basis the engineering modification developed under Item 5.              |

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